

What is Claimed is:

Sub  
al  
1. A display, comprising:

electro-optic elements; and

memory means and potential maintaining means both provided for each of the electro-optic elements,

wherein

a display operation by the electro-optic elements is controlled using outputs from the memory means and the potential maintaining means.

2. The display as set forth in claim 1,

wherein the electro-optic elements are provided near intersections of first wires and second wires provided in a direction crossing the first wires,

the display further comprising:

first switching elements each connected at a first terminal thereof to one of the first wires; and

second switching elements each connected in series with the memory means and a second terminal of the first switching element,

wherein the second terminal of the first switching element is electrically connected to the potential maintaining means.

3. The display as set forth in claim 2, further comprising:

third switching elements each connected in series with the potential maintaining means.

4. The display as set forth in claim 1,

wherein the electro-optic elements are provided near intersections of first wires and second wires provided in a direction crossing the first wires,

the display further comprising:

first switching elements each connected at a first terminal thereof to one of the first wires and electrically connected at a second terminal thereof to the memory means; and

fourth switching elements each connected at a first terminal thereof to one of the first wires and electrically connected at a second terminal thereof to the potential maintaining means.

5. The display as set forth in claim 4, further comprising fifth switching elements each interposed between one of the electro-optic elements and the memory means.

6. The display as set forth in claim 1, wherein

SECRET

the memory means is connected to a switching element which switches between an output from the memory means and an output from the potential maintaining means.

7. The display as set forth in claim 1, wherein

the outputs from the memory means or the potential maintaining means are supplied to the electro-optic elements for a period corresponding to a weight of data stored in the memory means or the potential maintaining means.

8. The display as set forth in claim 1, wherein

the electro-optic elements produce a display based on a voltage corresponding to a weight of data stored in the memory means or the potential maintaining means.

9. The display as set forth in claim 1, wherein

the electro-optic elements produce a display based on a current corresponding to a weight of data stored in the memory means or the potential maintaining means.

10. The display as set forth in claim 1, further comprising sixth switching elements each interposed between the potential maintaining means and either a power source wire or a ground wire.

11. The display as set forth in claim 1, further comprising second memory means, provided outside a pixel area, for recording a signal from which the electro-optic elements produce a display.

12. The display as set forth in claim 11, wherein

a display is produced from a signal recorded in the memory means and a signal supplied from the second memory means to the potential maintaining means.

13. The display as set forth in claim 11, wherein

a display is produced from a signal recorded in the memory means and a signal supplied from the second memory means to the potential maintaining means by switching between multiple video images.

14. The display as set forth in claim 1, wherein

the electro-optic elements are organic LED elements.

15. A display, comprising:

electro-optic elements; and

memory means provided for each of the electro-optic elements,

wherein

the electro-optic elements and the memory means have

SECRET

individual power source lines.

16. The display as set forth in claim 15, further comprising second memory means, provided outside a pixel area, for recording a signal from which the electro-optic elements produce a display.

17. The display as set forth in claim 16, wherein  
a display is produced from a signal recorded in the memory means and a signal supplied from the second memory means to the potential maintaining means.

18. The display as set forth in claim 16, wherein  
a display is produced from a signal recorded in the memory means and a signal supplied from the second memory means to the potential maintaining means by switching between multiple video images.

19. The display as set forth in claim 15, wherein  
the electro-optic elements are organic LED elements.

20. A portable device, comprising a display including:  
electro-optic elements; and  
memory means and potential maintaining means both provided for each of the electro-optic elements,

2025 RELEASE UNDER E.O. 14176

wherein

a display operation by the electro-optic elements is controlled using outputs from the memory means and the potential maintaining means.

21. A portable device, comprising a display including:

electro-optic elements; and

memory means provided for each of the electro-optic elements,

wherein

the electro-optic elements and the memory means have individual power source lines.

22. A substrate, comprising:

electrodes;

memory means and potential maintaining means both provided for each of the electrodes; and

means for controlling either voltage or current applied to the electrodes using outputs from the memory means and the potential maintaining means.